

Arizona Electric EDI Standards

UDC Bill Data For ESP Consolidated Billing

**VERSION: ANSI X12 810 Draft Standard Ver/Rel 4010
DRAFT**

**Author:
Modified:**

**Arizona Process Standards Work Group
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810**Invoice****Functional Group=IN**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Notes:

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

General: Mandatory usage items inside detail and summary loops below imply that they are mandatory if the loop is present.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Mandatory
020	BIG	Beginning Segment for Invoice	M	1			Mandatory
030	NTE	Note/Special Instruction (customer or rate level messages)	O	100			Conditional
050	REF	Reference Identification (ESP assigned acct #)	O	12			Mandatory
050	REF	Reference Identification (UDC assigned acct #)	O	12			Mandatory

LOOP ID - N1			200				
070	N1	Name (UDC)	O	1			Mandatory
070	N1	Name (ESP)	O	1			Mandatory
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Mandatory
140	DTM	Date/Time Reference (Invoice period)	O	10			Mandatory

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
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LOOP ID - IT1 (METERED)			200000				
010	IT1	Baseline Item Data (Metered)	O	1			Mandatory
040	TXI	Tax Information (Meter level taxes)	O	10			Conditional
059	MEA	Measurements (Multiplier)	O	40			Mandatory
059	MEA	Measurements (Kilowatt hours)	O	40			Mandatory
059	MEA	Measurements (Demand KW)	O	40			Conditional
060	PID	Product/Item Description	O	1			Conditional
120	REF	Reference Identification (Days in period)	O	>1			Optional
120	REF	Reference Identification (UNI/SDP)	O	>1			Mandatory
120	REF	Reference Identification (Meter number)	O	>1			Mandatory
120	REF	Reference Identification (Utility rate)	O	>1			Mandatory
120	REF	Reference Identification (Cycle Number)	O	>1			Optional
120	REF	Reference Identification (Estimation codes)	O	>1			Conditional
150	DTM	Date/Time Reference	O	10			Conditional

LOOP ID - SLN			1000				
200	SLN	Subline Item Detail	O	1			Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information (Meter level charges)	O	25			Mandatory

<u>LOOP ID - N1</u>						<u>200</u>
240	N1	Name (Customer)	O	1		Mandatory
260	N3	Address Information (Service address)	O	2		Mandatory
270	N4	Geographic Location	O	1		Optional
<u>LOOP ID - IT1 (UNMET)</u>						<u>200000</u>
010	IT1	Baseline Item Data (Invoice)	O	1		Mandatory
040	TXI	Tax Information (Unmetered level taxes)	O	10		Conditional
059	MEA	Measurements (Count of unmetered devices)	O	40		Mandatory
060	PID	Product/Item Description	O	1		Conditional
120	REF	Reference Identification (Days in period)	O	>1		Optional
120	REF	Reference Identification (Utility rate)	O	>1		Mandatory
120	REF	Reference Identification (Cycle Number)	O	>1		Optional
150	DTM	Date/Time Reference (Service period)	O	10		Conditional
<u>LOOP ID - SLN</u>						<u>1000</u>
200	SLN	Subline Item Detail	O	1		Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		Mandatory
<u>LOOP ID - N1</u>						<u>200</u>
240	N1	Name (Customer)	O	1		Mandatory
260	N3	Address Information (Service address)	O	2		Mandatory
270	N4	Geographic Location	O	1		Optional
<u>LOOP ID - IT1 (ACCOUNT)</u>						<u>200000</u>
010	IT1	Baseline Item Data (Account)	O	1		Mandatory
040	TXI	Tax Information (Account level taxes)	O	10		Conditional
060	PID	Product/Item Description	O	1		Conditional
120	REF	Reference Identification (Days in period)	O	>1		Mandatory
120	REF	Reference Identification (Cycle Number)	O	>1		Optional
150	DTM	Date/Time Reference (Service period)	O	10		Conditional
<u>LOOP ID - SLN</u>						<u>1000</u>
200	SLN	Subline Item Detail	O	1		Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information (Meter level charges)	O	25		Mandatory
237	TXI	Tax Information (Account/item level taxes)	O	10		Conditional

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Mandatory
070	CTT	Transaction Totals	O	1		N3/070	Recommended
080	SE	Transaction Set Trailer	M	1			Mandatory

ST**Transaction Set Header**

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number

Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Notes:

Required

ST~810~0001

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>810</td><td>Invoice</td></tr></table>	<u>Code</u>	<u>Name</u>	810	Invoice				
<u>Code</u>	<u>Name</u>									
810	Invoice									
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Mandatory				

BIG**Beginning Segment for Invoice**

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Semantics:

1. BIG01 is the invoice issue date.
2. BIG03 is the date assigned by the purchaser to purchase order.
3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

1. BIG07 is used only to further define the type of invoice when needed.

Notes:*Required**BIG~19990201~19990201123500001~~~~PR~00***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
BIG01	373	Date Description: Date expressed as CCYYMMDD Notes: <i>Document creation date</i>	M	DT	8/8	Mandatory										
BIG02	76	Invoice Number Description: Identifying number assigned by issuer Notes: <i>Unique document identifier by sender, such as invoice number.</i>	M	AN	1/22	Mandatory										
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>FB</td><td>Final Bill</td></tr><tr><td colspan="2">Notes: <i>Final bill ready items from the non-billing party.</i></td></tr><tr><td>PR</td><td>Product (or Service)</td></tr><tr><td colspan="2">Notes: <i>Regular service period bill items from the non-billing party.</i></td></tr></table>	<u>Code</u>	<u>Name</u>	FB	Final Bill	Notes: <i>Final bill ready items from the non-billing party.</i>		PR	Product (or Service)	Notes: <i>Regular service period bill items from the non-billing party.</i>		O	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>															
FB	Final Bill															
Notes: <i>Final bill ready items from the non-billing party.</i>																
PR	Product (or Service)															
Notes: <i>Regular service period bill items from the non-billing party.</i>																
BIG08	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>00</td><td>Original</td></tr><tr><td>CO</td><td>Corrected</td></tr><tr><td colspan="2">Notes: <i>Used to send rebill items from non-billing party.</i></td></tr></table>	<u>Code</u>	<u>Name</u>	00	Original	CO	Corrected	Notes: <i>Used to send rebill items from non-billing party.</i>		O	ID	2/2	Mandatory		
<u>Code</u>	<u>Name</u>															
00	Original															
CO	Corrected															
Notes: <i>Used to send rebill items from non-billing party.</i>																

NTE**Note/Special Instruction (Customer or rate level messages)**

Pos: 030	Max: 100
Heading - Optional	
Loop: N/A	Elements: 2

To transmit information in a free-form format, if necessary, for comment or special instruction

Comments:

- The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Notes:

Conditional.

Used to explain or clarify billing charges from non-billing party. Recommend using non EDI method to deliver repetitive messages.

NTE~ADD~ADJUSTMENTS DUE TO POWER FACTOR CHANGE

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NTE01	363	Note Reference Code	O	ID	3/3	Mandatory

Description: Code identifying the functional area or purpose for which the note applies

CodeName

ADD

Additional Information

Notes: *Non-billing party messages. These are for special bill messages, and exclude repetitive and/or regulatory messages.*

NTE02	352	Description	M	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content

Notes: *Message text*

REF

Reference Identification (ESP assigned customer account number)

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Required

REF~11~935668322

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Notes: <i>Energy Service Provider assigned account number for the end customer</i>	M	ID	2/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>11</td><td>Account Number</td></tr></table>	<u>Code</u>	<u>Name</u>	11	Account Number				
<u>Code</u>	<u>Name</u>									
11	Account Number									
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>Account number</i>	C	AN	1/30	Mandatory				

REF

Reference Identification (UDC assigned customer account number)

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Required

REF~12~123456789

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Notes: <i>Utility(UDC) assigned account number for the end customer</i>	M	ID	2/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>12</td><td>Billing Account</td></tr></table>	<u>Code</u>	<u>Name</u>	12	Billing Account				
<u>Code</u>	<u>Name</u>									
12	Billing Account									
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>Account number</i>	C	AN	1/30	Mandatory				

N1**Name (UDC identification)**

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 5

To identify a party by type of organization, name, and code

Syntax:

R0203 -- At least one of N102 or N103 is required.

P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Notes:

Required

N1~8S~UTILITY COMPANY~1~123456789~~41

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Mandatory						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>8S</td><td>Consumer Service Provider (CSP)</td></tr></table> Notes: <i>Utility</i>	<u>Code</u>	<u>Name</u>	8S	Consumer Service Provider (CSP)						
<u>Code</u>	<u>Name</u>											
8S	Consumer Service Provider (CSP)											
N102	93	Name Description: Free-form name	C	AN	1/60	Conditional						
		Notes: <i>Entity name</i>										
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Conditional						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>1</td><td>D-U-N-S Number, Dun & Bradstreet</td></tr><tr><td>9</td><td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td></tr></table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix				
<u>Code</u>	<u>Name</u>											
1	D-U-N-S Number, Dun & Bradstreet											
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix											
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Conditional						
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Mandatory						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>41</td><td>Submitter</td></tr></table>	<u>Code</u>	<u>Name</u>	41	Submitter						
<u>Code</u>	<u>Name</u>											
41	Submitter											

N1**Name (ESP identification)**

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 5

To identify a party by type of organization, name, and code

Syntax:

R0203 -- At least one of N102 or N103 is required.

P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Notes:

Required

N1~SJ~ENERGY SERVICE PROVIDER~1~123456789~~40

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage						
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>SJ</td><td>Service Provider</td></tr></table> Notes: <i>Energy Service Provider</i>	<u>Code</u>	<u>Name</u>	SJ	Service Provider	M	ID	2/3	Mandatory		
<u>Code</u>	<u>Name</u>											
SJ	Service Provider											
N102	93	Name Description: Free-form name Notes: <i>Entity name</i>	C	AN	1/60	Conditional						
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>1</td><td>D-U-N-S Number, Dun & Bradstreet</td></tr><tr><td>9</td><td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td></tr></table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	C	ID	1/2	Conditional
<u>Code</u>	<u>Name</u>											
1	D-U-N-S Number, Dun & Bradstreet											
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix											
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Conditional						
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>40</td><td>Receiver</td></tr></table>	<u>Code</u>	<u>Name</u>	40	Receiver	O	ID	2/3	Mandatory		
<u>Code</u>	<u>Name</u>											
40	Receiver											

ITD

Terms of Sale/Deferred Terms of Sale (Payment due date)

Pos: 130	Max: >1
Heading - Optional	
Loop: N/A	Elements: 1

To specify terms of sale

Syntax:

1. ITD03 L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. ITD08 L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. ITD09 L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Notes:

Required

ITD~~~~~20000601

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD06	446	Terms Net Due Date	O	DT	8/8	Mandatory
Description: Date when total invoice amount becomes due expressed in format CCYYMMDD						
Notes: <i>Payment due date</i>						

DTM

Date/Time Reference (Billing period)

Pos: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

To specify pertinent dates and times

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Required, reflects current billing period only

DTM~186~20000315

DTM~187~20000414

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Mandatory						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>186</td><td>Invoice Period Start</td></tr><tr><td>187</td><td>Invoice Period End</td></tr></table>	<u>Code</u>	<u>Name</u>	186	Invoice Period Start	187	Invoice Period End				
<u>Code</u>	<u>Name</u>											
186	Invoice Period Start											
187	Invoice Period End											
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Mandatory						

IT1**Baseline Item Data (Metered)**

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 5

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.

P0607 -- If either IT106 or IT107 are present, then the others are required.

P0809 -- If either IT108 or IT109 are present, then the others are required.

P1011 -- If either IT110 or IT111 are present, then the others are required.

P1213 -- If either IT112 or IT113 are present, then the others are required.

P1415 -- If either IT114 or IT115 are present, then the others are required.

P1617 -- If either IT116 or IT117 are present, then the others are required.

P1819 -- If either IT118 or IT119 are present, then the others are required.

P2021 -- If either IT120 or IT121 are present, then the others are required.

P2223 -- If either IT122 or IT123 are present, then the others are required.

P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

- IT101 is the purchase order line item identification.

Comments:

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required

IT1~1~~~~SV~EL~C3~METER

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: <i>Line item counter within IT1 loop</i>	O	AN	1/20	Recommended				
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>SV</td><td>Service Rendered</td></tr></table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>Commodity</i> <i>EL Electric Service</i>	C	AN	1/48	Mandatory				
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number	C	ID	2/2	Mandatory				

11/16/00							Invoice - 810
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		C3	Classification				
IT109	234	Product/Service ID		C	AN	1/48	Mandatory
		Description: Identifying number for a product or service					
		Notes: <i>Line item billing levels</i>					
		<i>METER for meter level charges</i>					

TXI**Tax Information (Meter level taxes)**

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:*Required if taxes exist and are billed at IT1 levels(Meter)**TXI~ZZ~4.55~~CD~ABC~~A~~~5**TXI~LS~8.10***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Mandatory																
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>AT</td><td>Assessment for Regulatory Assessments</td></tr><tr><td>CP</td><td>County/Parish Sales Tax</td></tr><tr><td>CS</td><td>City Sales Tax</td></tr><tr><td>FR</td><td>Franchise Tax</td></tr><tr><td>LS</td><td>State and Local Sales Tax</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	AT	Assessment for Regulatory Assessments	CP	County/Parish Sales Tax	CS	City Sales Tax	FR	Franchise Tax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>																					
AT	Assessment for Regulatory Assessments																					
CP	County/Parish Sales Tax																					
CS	City Sales Tax																					
FR	Franchise Tax																					
LS	State and Local Sales Tax																					
ST	State Sales Tax																					
ZZ	Mutually Defined																					
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	Mandatory																
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code Notes: <i>Required if TXI01 = ZZ</i>	C	ID	2/2	Conditional																
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined																
<u>Code</u>	<u>Name</u>																					
CD	Customer defined																					
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction Notes: <i>Required if TXI01 = ZZ</i>	C	AN	1/10	Conditional																
TXI07	662	Relationship Code Description: Code indicating the relationship between entities	O	ID	1/1	Optional																
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>A</td><td>Add</td></tr></table> Notes: <i>The amount in TXI02 is included when summing the invoice total</i>	<u>Code</u>	<u>Name</u>	A	Add																
<u>Code</u>	<u>Name</u>																					
A	Add																					

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
------------	-----------	---------------------	------------	-------------	----------------	--------------

MEA Measurements (Multiplier)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.

C0504 -- If MEA05 is present, then MEA04 is required

C0604 -- If MEA06 is present, then MEA04 is required

L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Required for metered account. If no multiplier exists, use value of 1 in MEA03

MEA~~MU~1

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
MEA02	738	Measurement Qualifier	O	ID	1/3	Mandatory				
		Description: Code identifying a specific product or process characteristic to which a measurement applies								
		Notes: <i>Required when representing multiplier value</i>								
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>MU</td><td>Multiplier</td></tr></table>	<u>Code</u>	<u>Name</u>	MU	Multiplier				
<u>Code</u>	<u>Name</u>									
MU	Multiplier									
MEA03	739	Measurement Value	C	R	1/20	Mandatory				
		Description: The value of the measurement								
		Notes: If no multiplier exists, use value of 1 in MEA03								

MEA Measurements (Reads)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.

C0504 -- If MEA05 is present, then MEA04 is required

C0604 -- If MEA06 is present, then MEA04 is required

L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Required for metered account

MEA~AA~~3111~KH~62666~65777

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies Notes: <i>Required to designate actual or estimated read</i>	O	ID	2/2	Mandatory
		Code				
		Name				
		AA Meter reading-beginning actual/ending actual				
		EE Meter reading-beginning estimated/ending				
		estimated				
		AE Meter reading-beginning actual/ending estimated				
		EA Meter reading-beginning estimated/ending				
		actual				
		AN Period Actual				
		EN Period Estimated				
MEA03	739	Measurement Value Description: The value of the measurement Notes: <i>Billable consumption with multiplier applied</i>	C	R	1/20	Mandatory
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Mandatory
		Code				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Name</u>				
		KH Kilowatt Hour				
		K3 Kilovolt Amperes Reactive Hours (KVARH)				
MEA05	740	Range Minimum	C	R	1/20	Mandatory
		Description: The value specifying the minimum of the measurement range				
		Notes: <i>Beginning read</i>				
MEA06	741	Range Maximum	C	R	1/20	Mandatory
		Description: The value specifying the maximum of the measurement range				
		Notes: <i>Ending read</i>				
MEA07	935	Measurement Significance Code	C	ID	2/2	Conditional
		<u>Code</u> <u>NAME</u>				
		41 Off Peak				
		42 On Peak				
		45 Summer On Peak				
		49 Winter On Peak				
		57 Summer				
		58 Winter				
		66 Shoulder				
		73 Summer Off Peak				
		75 Winter Off Peak				
		For time of use (TOU) customers				

MEA Measurements (Demand)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.

C0504 -- If MEA05 is present, then MEA04 is required

C0604 -- If MEA06 is present, then MEA04 is required

L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Conditional. Required for metered accounts where demand is measured

MEA~AA~~125.44~K1~~50~41

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies Notes: <i>Required to designate actual or estimated</i> <div><div><u>Name</u></div><div>ANPeriod Actual</div><div>ENPeriod Estimated</div></div> <div><u>Code</u></div>	O	ID	2/2	Mandatory
MEA03	739	Measurement Value Description: The value of the measurement Notes: <i>Billable demand with multiplier applied</i>	C	R	1/20	Mandatory
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <div><div><u>Name</u></div><div>K1Kilowatt Demand</div></div> <div><u>Code</u></div>	M	ID	2/2	Mandatory

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA06	741	Range Maximum Description: The value specifying the maximum of the measurement range Notes: <i>Required when representing kilowatt demand read without multiplier applied</i>	C	R	1/20	Mandatory
MEA07	935	Measurement Significance Code <u>Code</u> <u>NAME</u> 41 Off Peak 42 On Peak 45 Summer On Peak 49 Winter On Peak 57 Summer 58 Winter 66 Shoulder 73 Summer Off Peak 75 Winter Off Peak	C	ID	2/2	Conditional

For time of use (TOU) customers

PID**Product/Item Description (Designate corrected vs. original)**

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Conditional. Required for cancel/rebill to differentiate between corrected and original details.

PID~F~~~~CORRECTED

PID~F~~~~ORIGINAL

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

REF**Reference Identification (Days in period)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional, and is generally used in cancel/rebill situations

REF~ZZ~~31

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

Notes: *Number of days in the usage period*

REF03	352	Description	C	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content

Notes: Number of days in period

REF Reference Identification (UNI)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- REF04 contains data relating to the value cited in REF02.

Notes:

Required

REF~LU~~ABC123

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
LU	Location Number

Notes: *Represents Universal Node Identifier UNI*

REF03	352	Description	C	AN	1/80	Mandatory
-------	-----	-------------	---	----	------	-----------

Description: A free-form description to clarify the related data elements and their content

Notes: UNI

REF**Reference Identification (Meter number)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Required for metered account

REF~MG~~ABC123

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
MG	Meter Number

Notes: *Required for metered accounts*

REF03	352	Description	C	AN	1/80	Mandatory
-------	-----	--------------------	---	----	------	-----------

Description: A free-form description to clarify the related data elements and their content

Notes: Meter number or UMI depending on service territory

REF**Reference Identification (Utility rate)**

Pos: 120	Max: >1
Detail: Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- REF04 contains data relating to the value cited in REF02.

Notes:*Required**REF~NH~~E36***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
NH	Rate Card Number

Notes: *Utility rate class*

REF03	352	Description	C	AN	1/80	Mandatory
-------	-----	-------------	---	----	------	-----------

Description: A free-form description to clarify the related data elements and their content**Notes:** Rate

REF**Reference Identification (Cycle Number)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional

REF~TZ~~15

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
TZ	Total Cycle Number

Notes: *Meter cycle.*

REF03	352	Description	C	AN	1/80	Mandatory
-------	-----	--------------------	---	----	------	-----------

Description: A free-form description to clarify the related data elements and their content

Notes: Cycle number when the meter will be read

REF**Reference Identification (Estimation Reason codes)**

Pos: 120	Max: >1
Detail: IT1	Optional
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

1. REF02 R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

1. This segment is required when the MEA01 = AA, EE, AE, EA, AN, or EN.

Notes:

Conditional, required if meter read is estimated
REF~ESN~EA1

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory
Description: Code qualifying the Reference Identification - Estimate Reason Code						

<u>Code</u>	<u>Name</u>
-------------	-------------

ESN	Estimate Sequence Number
-----	--------------------------

REF02	127	Reference Identification	C	AN	1/30	Mandatory
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

<u>Code</u>	<u>Name</u>
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EA1	Extreme Weather - Flood
-----	-------------------------

EA2	Extreme Weather - Snow
-----	------------------------

EA3	Extreme Weather - Storm
-----	-------------------------

EA4	Extreme Weather
-----	-----------------

EA5	Labor Disagreement
-----	--------------------

EA6	Emergency
-----	-----------

EB0	Self read not received from customer
-----	--------------------------------------

EC1	No Access - Bad Animal
-----	------------------------

EC2	No Access - Gate Locked
-----	-------------------------

EC3	No Access - Trim Foliage
-----	--------------------------

EC4	No Access - No Answer at Premises
-----	-----------------------------------

EC5	No Access - Meter Blocked
-----	---------------------------

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		EC6 = No Access - Irrigation				
		EC7 = No Access - Business Not Open				
		EC8 = No Access				
		ED1 = Customer Meter Equipment Failure				
		ED2 = Customer Meter Removed				
		ED3 = Customer Meter Changed				
		ED4 = Customer Dirty Meter Glass				
		EE0 = Read Not Received From Meter Reading Agent				
		EE1 = Other				
		EV1 = Meter Was Misread				
		EV2 = Zero Consumption - Check Failure				
		EV3 = High/Low Check Failure				
		EV4 = Meter in Test (Interval Estimate Only)				
		EV5 = Demand Not Reset				
		EV6 = Energy Diversion - Read Estimated				
		GE01 = MRSP Estimated				
		GE02 = UDC Estimated				
		GE03 = Automated Estimation				
		GE04 = Calculated Read				
		MA1 = Power Failure in Interval				
		MA2 = Meter Tamper				
		MS1 = Dead Meter				
		MS2 = Kit Faulted Service				
		MS3 = Kit Source Service				
		MS4 = Flatted in UDC				
		MS5 = Exposed Wiring				
		MS6 = Low Service Wire				
		MS7 = Meter Destroyed				
		MS8 = Broken Glass				
		MS9 = Service Wires in Trees				
		MS10 = Curled Dial				
		MS11 = Demand Won't Reset to Zero				
		MS12 = Wrong Meter Number				
		MS13 = Wrong Address				
		MS14 = Battery Failure				
		MS15 = Pot Light				
		MD1 = Wrong Color Seal				
		MD2 = Inverted Meter				
		MD3 = Meter Not Sealed				
		MD4 = Ring Damaged				
		MD5 = Jumpers Bypassed				
		MD6 = Diversion				
		MD7 = No Panel Seal				
		MD8 = Hole in Cover				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		MD9 = Disc Jammed				
		MD10 = Stolen Meter Installed				
		GT = Go to REF03 for Description				
REF03	352	Description Description: A free-form description to clarify the related data elements and their content. Notes: <i>Required if REF02 = GT</i>	C	AN	1/80	Conditional

DTM**Date/Time Reference (period start/stop dates)**

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Conditional. Used when period is different than the header, such as in cancel/rebill and requires sending prior period(s) detail

DTM~150~20000615

DTM~151~20000714

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Mandatory						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>150</td><td>Service Period Start</td></tr><tr><td>151</td><td>Service Period End</td></tr></table>	<u>Code</u>	<u>Name</u>	150	Service Period Start	151	Service Period End				
<u>Code</u>	<u>Name</u>											
150	Service Period Start											
151	Service Period End											
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Mandatory						

SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 2

To specify product subline detail item data

Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required if there are charges at a meter level

SLN~I~~A

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
SLN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: <i>May be used as a loop counter for line item charges</i>	M	AN	1/20	Mandatory				
SLN03	662	Relationship Code Description: Code indicating the relationship between entities	M	ID	1/1	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>A</td><td>Add</td></tr></table>	<u>Code</u>	<u>Name</u>	A	Add				
<u>Code</u>	<u>Name</u>									
A	Add									

SAC

Service, Promotion, Allowance, or Charge Information (Charge type and amount)

Pos: 230 Max: 25
 Detail - Optional
 Loop: SLN Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:

Required if there are charges at a meter level

SAC~C~~EU~BAS001~1250~~~~~BASIC SVC CHG

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u> C Charge				
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Mandatory
		<u>Code</u> <u>Name</u>				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		EU Electric Utilities				
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge Notes: <i>Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15</i> <i>DIS001 Distribution Charge</i> <i>DSC012 Primary Voltage Credit</i> <i>DSC001 Voltage Credit</i> <i>MSC022 Competitive Transition Charge</i> <i>MSC024 System Benefit Charge</i> <i>ADJ002 Adjustment</i> <i>MSC026 Interruptible Penalty</i> <i>SMD016 Meter Read</i> <i>SMD019 Meter Read Verify</i> <i>DSC013 Transmission Voltage Credit</i> <i>SER008 TOU Remote Metering</i> <i>SMD000 No Access Charge</i> <i>SMD015 Meter Ownership</i> <i>SMD014 Meter Services</i> <i>TRN000 Required Ancillary</i> <i>GEN000 Fixed Must Run</i> <i>PFA001 Power Factor</i> <i>CRE004 Transformer Discount</i> <i>DSC000 Primary Metering Discount</i> <i>DMD000 First step kW</i> <i>DMD000 Remaining kW</i> <i>DMD007 On Peak kW Charge</i> <i>DMD029 Shoulder kW Charge</i> <i>DMD006 Off Peak kW Charge</i> <i>ENC039 On Peak kWh Charge</i> <i>ENC000 Shoulder kWh Charge</i> <i>ENC003 Off Peak kWh Charge</i> <i>ADJ000 Cancelled Bill</i> <i>ADJ008 Miscellaneous Billing Adjustment</i> <i>SER000 Interval Data Request Charge</i> <i>ADJ000 Refund</i> <i>SER000 Charge for Consumption Data</i> <i>MSC007 Charge for Damaged Equipment</i> <i>MSC000 Charges for Unauthorized Use of Service</i> <i>HOC000 After Hour Establishment Fee</i> <i>HOC000 Cancel Service Establishment Fee</i> <i>HOC001 Service Establishment Fee</i> <i>CRE000 Guarantee Home Refund</i>	C	AN	1/10	Mandatory

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>MSC000 Meter Test Charge</i> <i>RCS001 Reconnect Fee</i> <i>TEM001 Temporary Service Charge</i> <i>CRE000 Residential Rate 70 Refund</i> <i>TRS001 Charges Transferred</i> <i>FFR000 Xray Charge</i> <i>FAC000 Three Phase</i> <i>BAS001 Basic Service Charge</i> <i>FUE003 Fuel Adjustment</i> <i>RCS000 Cancellation of Reconnect Fee</i> <i>MSC000 Totalizer Charge</i> <i>SUR001 ACC Regulatory Assessment</i> <i>SUR000 Environmental Portfolio Surcharge</i> <i>SUR000 RUCO Regulatory Assessment</i> <i>MSC000 Flat rate Charge</i> <i>DSC009 Energy Assistance Discount</i> <i>SUR000 RTO Charge</i>				
SAC05	610	Amount Description: Monetary amount Notes: Dollar amounts may be positive or negative.	O	N2	1/15	Mandatory
SAC15	352	Description Description: A free-form description to clarify the related data elements and their content Notes: Description is required when SAC04 code is one of the following, or the suffix of the SAC04 code is 000:	C	AN	1/80	Conditional

N1**Name (Customer)**

Pos: 240	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

To identify a party by type of organization, name, and code

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Notes:*Required**N1~MQ~JOHN DOE***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Notes: <i>Required.</i>	M	ID	2/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>MQ</td><td>Metering Location</td></tr></table> Notes: <i>Customer representing service address</i>	<u>Code</u>	<u>Name</u>	MQ	Metering Location				
<u>Code</u>	<u>Name</u>									
MQ	Metering Location									
N102	93	Name Description: Free-form name Notes: <i>Customer name</i>	C	AN	1/60	Mandatory				

N3**Address Information (Service address)**

Pos: 260	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

To specify the location of the named party

Notes:*Required**N3~77 SUNSET STRIP***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Mandatory
		Description: Address information				
		Notes: <i>Service address</i>				

N4**Geographic Location (Service city/state)**

Pos: 270	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

To specify the geographic place of the named party

Syntax:

C0605 -- If N406 is present, then N405 is required

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

Notes:

Optional.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name Notes: <i>Required if address is within city/town</i>	O	AN	2/30	Conditional
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency Notes: <i>Always AZ</i>	O	ID	2/2	Mandatory
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Optional

IT1**Baseline Item Data (Unmetered)**

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 5

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.

P0607 -- If either IT106 or IT107 are present, then the others are required.

P0809 -- If either IT108 or IT109 are present, then the others are required.

P1011 -- If either IT110 or IT111 are present, then the others are required.

P1213 -- If either IT112 or IT113 are present, then the others are required.

P1415 -- If either IT114 or IT115 are present, then the others are required.

P1617 -- If either IT116 or IT117 are present, then the others are required.

P1819 -- If either IT118 or IT119 are present, then the others are required.

P2021 -- If either IT120 or IT121 are present, then the others are required.

P2223 -- If either IT122 or IT123 are present, then the others are required.

P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:*Required*

IT1~2~~~~SV~EL~C3~UNMET

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: <i>Line item counter within IT1 loop</i>	O	AN	1/20	Recommended				
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>SV</td><td>Service Rendered</td></tr></table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>Commodity</i> <i>EL Electric Service</i>	C	AN	1/48	Mandatory				
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number	C	ID	2/2	Mandatory				

11/16/00							Invoice - 810
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		C3	Classification				
IT109	234	Product/Service ID		C	AN	1/48	Mandatory
		Description: Identifying number for a product or service					
		Notes: <i>Line item billing levels</i>					
		<i>UNMET for charges at unmetered accounts</i>					

TXI**Tax Information (Billing level taxes)**

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:*Required if taxes exist and are billed at IT1 levels(Unmetered)**TXI~ZZ~4.55~~CD~ABC~~A~~~5**TXI~LS~8.10***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
TXI01	963	Tax Type Code Description: Code specifying the type of tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>AT</td><td>Assessment for Regulatory Assessments</td></tr><tr><td>CP</td><td>County/Parish Sales Tax</td></tr><tr><td>CS</td><td>City Sales Tax</td></tr><tr><td>FR</td><td>FranchiseTax</td></tr><tr><td>LS</td><td>State and Local Sales Tax</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	AT	Assessment for Regulatory Assessments	CP	County/Parish Sales Tax	CS	City Sales Tax	FR	FranchiseTax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined	M	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>																					
AT	Assessment for Regulatory Assessments																					
CP	County/Parish Sales Tax																					
CS	City Sales Tax																					
FR	FranchiseTax																					
LS	State and Local Sales Tax																					
ST	State Sales Tax																					
ZZ	Mutually Defined																					
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	Mandatory																
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code Notes: <i>Required if TXI01 = ZZ</i> <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined	C	ID	2/2	Conditional												
<u>Code</u>	<u>Name</u>																					
CD	Customer defined																					
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction Notes: <i>Required if TXI01 = ZZ</i>	C	AN	1/10	Conditional																
TXI07	662	Relationship Code Description: Code indicating the relationship between entities	O	ID	1/1	Optional																

11/16/00							Invoice - 810
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>	<u>Name</u>				
		A	Add				
Notes: <i>The amount in TXI02 is included when summing the invoice total</i>							

MEA

Measurements (Count of unmetered devices)

Pos: 059	Max: 40
Detail - Optional	
Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.

C0504 -- If MEA05 is present, then MEA04 is required

C0604 -- If MEA06 is present, then MEA04 is required

L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

- MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Required for count of unmetered devices

MEA~~~1~EA

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
MEA03	739	Measurement Value Description: The value of the measurement Notes: <i>Count of unmetered devices</i>	C	R	1/20	Mandatory				
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>EA</td><td>Each</td></tr></table>	<u>Code</u>	<u>Name</u>	EA	Each				
<u>Code</u>	<u>Name</u>									
EA	Each									

PID**Product/Item Description (Designate corrected vs. original)**

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Conditional. Required for cancel/rebill to differentiate between corrected and original details.

PID~F~~~~CORRECTED

PID~F~~~~ORIGINAL

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

REF**Reference Identification (Days in period)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional, and is generally used in cancel/rebill situations

REF~ZZ~~31

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

Notes: *Number of days in the usage period*

REF03	352	Description	C	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content

Notes: Number of days in period

REF**Reference Identification (Utility rate)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- REF04 contains data relating to the value cited in REF02.

Notes:*Required**REF~NH~~E36***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference IdentificationCodeName

NH

Rate Card Number

Notes: *Utility rate class*

REF03	352	Description	C	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content**Notes:** Rate

REF**Reference Identification (Cycle Number)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional

REF~TZ~~15

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
TZ	Total Cycle Number

Notes: *Meter cycle.*

REF03	352	Description	C	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content

Notes: Cycle number when the meter will be read

DTM**Date/Time Reference (period start/stop dates)**

Pos: 150	Max: 10
Detail - Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Conditional. Used when period is different than the header, such as cancel/rebill and requires sending prior period(s) detail

DTM~150~20000615

DTM~151~20000714

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Mandatory						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>150</td><td>Service Period Start</td></tr><tr><td>151</td><td>Service Period End</td></tr></table>	<u>Code</u>	<u>Name</u>	150	Service Period Start	151	Service Period End				
<u>Code</u>	<u>Name</u>											
150	Service Period Start											
151	Service Period End											
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Mandatory						

SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 2

To specify product subline detail item data

Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required if there are charges at a detailed level

SLN~I~~A

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
SLN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: <i>May be used as a loop counter for line item charges</i>	M	AN	1/20	Mandatory				
SLN03	662	Relationship Code Description: Code indicating the relationship between entities	M	ID	1/1	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>A</td><td>Add</td></tr></table>	<u>Code</u>	<u>Name</u>	A	Add				
<u>Code</u>	<u>Name</u>									
A	Add									

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC		Service, Promotion, Allowance, or Charge Information (Charge type and amount)				Pos: 230 Max: 25 Detail - Optional Loop: SLN Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:

Required if there are charges at a detailed level

SAC~C~~EU~DIS001~1250~~~~~DISTRIBUTION DELIVERY

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u> C Charge				
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Mandatory

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> EU				
		<u>Name</u> Electric Utilities				
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge Notes: <i>Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15</i> <i>DIS001 Distribution Charge</i> <i>ADJ002 Adjustment</i> <i>MSC000 Flat Rate Charge</i> <i>FFR001 Non Metered Service</i> <i>TRN000 Required Ancillary</i> <i>GEN000 Fixed Must Run</i> <i>BAS001 Basic Service Charge</i> <i>ADJ000 Cancelled Bill</i> <i>ADJ008 Miscellaneous Billing Adjustment</i> <i>ADJ000 Contract Adjustment</i> <i>ADJ000 Refund</i> <i>SER000 Charge for Consumption Data</i> <i>MSC007 Charge for Damaged Equipment</i> <i>HOC000 Cancel Service Establishment Fee</i> <i>HOC001 Service Establishment Fee</i> <i>TRS001 Charges Transferred</i> <i>FFR000 Xray Charge</i> <i>SUR000 RUCO Regulatory Assessment</i> <i>SUR000 ACC Regulatory Assessment</i> <i>SUR000 Environmental Portfolio Surcharge</i> <i>FUE003 Fuel Adjustment</i> <i>MSC024 System Benefit Charge</i>	C	AN	1/10	Mandatory
SAC05	610	Amount Description: Monetary amount Notes: <i>Dollar amounts may be positive or negative.</i>	O	N2	1/15	Mandatory
SAC15	352	Description Description: A free-form description to clarify the related data elements and their content Notes: <i>Description is required when SAC04 code is one of the following, or the suffix of the SAC04 code is 000:</i>	C	AN	1/80	Conditional

N1**Name (Customer)**

Pos: 240	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

To identify a party by type of organization, name, and code

Syntax:

1. N102 R0203 -- At least one of N102 or N103 is required.
2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Notes:*Required**N1~MQ~JOHN DOE***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Notes: <i>Required.</i>	M	ID	2/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>MQ</td><td>Metering Location</td></tr></table> Notes: <i>Customer representing service address</i>	<u>Code</u>	<u>Name</u>	MQ	Metering Location				
<u>Code</u>	<u>Name</u>									
MQ	Metering Location									
N102	93	Name Description: Free-form name Notes: <i>Customer name</i>	C	AN	1/60	Mandatory				

N3	Address Information (Service address)	Pos: 260	Max: 2
		Detail - Optional	
		Loop: N1	Elements: 1

To specify the location of the named party

Notes:

Required

N3~77 SUNSET STRIP

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Mandatory
		Description: Address information				
		Notes: Service address				

N4**Geographic Location (Service city/state)**

Pos: 270	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

To specify the geographic place of the named party

Syntax:

C0605 -- If N406 is present, then N405 is required

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

Notes:

Optional.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name Notes: <i>Required if address is within city/town</i>	O	AN	2/30	Conditional
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency Notes: <i>Always AZ</i>	O	ID	2/2	Mandatory
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Optional

IT1

Baseline Item Data (Account)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 5

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
P0607 -- If either IT106 or IT107 are present, then the others are required.
P0809 -- If either IT108 or IT109 are present, then the others are required.
P1011 -- If either IT110 or IT111 are present, then the others are required.
P1213 -- If either IT112 or IT113 are present, then the others are required.
P1415 -- If either IT114 or IT115 are present, then the others are required.
P1617 -- If either IT116 or IT117 are present, then the others are required.
P1819 -- If either IT118 or IT119 are present, then the others are required.
P2021 -- If either IT120 or IT121 are present, then the others are required.
P2223 -- If either IT122 or IT123 are present, then the others are required.
P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required

IT1~2~~~~SV~EL~C3~ACCOUNT

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: <i>Line item counter within IT1 loop</i>	O	AN	1/20	Recommended				
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>SV</td><td>Service Rendered</td></tr></table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>Commodity</i> <i>EL Electric Service</i>	C	AN	1/48	Mandatory				
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number	C	ID	2/2	Mandatory				

11/16/00							Invoice - 810
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		C3	Classification				
IT109	234	Product/Service ID		C	AN	1/48	Mandatory
		Description: Identifying number for a product or service					
		Notes: <i>Line item billing levels</i>					
		<i>ACCOUNT for account level charges</i>					

TXI**Tax Information (Billing level taxes)**

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:*Required if taxes exist and are billed at IT1 levels(Account)**TXI~ZZ~4.55~~CD~ABC~~A~~~5**TXI~LS~8.10***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
TXI01	963	Tax Type Code Description: Code specifying the type of tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>AT</td><td>Assessment for Regulatory Assessments</td></tr><tr><td>CP</td><td>County/Parish Sales Tax</td></tr><tr><td>CS</td><td>City Sales Tax</td></tr><tr><td>FR</td><td>FranchiseTax</td></tr><tr><td>LS</td><td>State and Local Sales Tax</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	AT	Assessment for Regulatory Assessments	CP	County/Parish Sales Tax	CS	City Sales Tax	FR	FranchiseTax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined	M	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>																					
AT	Assessment for Regulatory Assessments																					
CP	County/Parish Sales Tax																					
CS	City Sales Tax																					
FR	FranchiseTax																					
LS	State and Local Sales Tax																					
ST	State Sales Tax																					
ZZ	Mutually Defined																					
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	Mandatory																
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code Notes: <i>Required if TXI01 = ZZ</i> <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined	C	ID	2/2	Conditional												
<u>Code</u>	<u>Name</u>																					
CD	Customer defined																					
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction Notes: <i>Required if TXI01 = ZZ</i>	C	AN	1/10	Conditional																
TXI07	662	Relationship Code Description: Code indicating the relationship between entities	O	ID	1/1	Optional																

11/16/00

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<div><div><u>Code</u></div><div>A</div></div> <div><div><u>Name</u></div><div>Add</div></div>				
<div>Notes: The amount in TXI02 is included when summing the invoice total</div>						

Invoice - 810

PID**Product/Item Description (Designate corrected vs. original)**

Pos: 060	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0804 -- If PID08 is present, then PID04 is required
5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Conditional. Required for cancel/rebill to differentiate between corrected and original details.

PID~F~~~~CORRECTED

PID~F~~~~ORIGINAL

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		<u>Code</u> <u>Name</u>				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

REF

Reference Identification (Days in period)

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- REF04 contains data relating to the value cited in REF02.

Notes:

Required

REF~ZZ~~31

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

Notes: *Number of days in the usage period*

REF03	352	Description	C	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content

Notes: Number of days in period

REF**Reference Identification (Cycle Number)**

Pos: 120	Max: >1
Detail - Optional	
Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional

REF~TZ~~15

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory

Description: Code qualifying the Reference Identification

<u>Code</u>	<u>Name</u>
TZ	Total Cycle Number

Notes: *Meter cycle.*

REF03	352	Description	C	AN	1/80	Mandatory
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Description: A free-form description to clarify the related data elements and their content

Notes: Cycle number when the meter will be read

DTM**Date/Time Reference (period start/stop dates)**

Pos: 150	Max: 10
Detail: Optional	
Loop: IT1	Elements: 2

To specify pertinent dates and times

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Conditional. Used when period is different than the header, such as cancel/rebill

Generally, the DTMs are paired but it is acceptable to use one to represent the period.

DTM~150~20000615

DTM~151~20000714

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Mandatory
Description: Code specifying type of date or time, or both date and time						
		<u>Code</u>		<u>Name</u>		
		150		Service Period Start		
		151		Service Period End		
DTM02	373	Date	C	DT	8/8	Mandatory
Description: Date expressed as CCYYMMDD						

SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 2

To specify product subline detail item data

Syntax:

1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required if there are charges at a detailed level

SLN~I~~A

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: <i>May be used as a loop counter for line item charges</i>	M	AN	1/20	Mandatory
SLN03	662	Relationship Code Description: Code indicating the relationship between entities	M	ID	1/1	Mandatory
		Code A		Name Add		

SAC

Service, Promotion, Allowance, or Charge Information (Account level charges)

Pos: 230 Max: 1
 Detail - Optional
 Loop: SAC Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:

Required if there are charges at account level

SAC~C~~EU~BAS001~1250~~~~~BASIC SVC CHG

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		<u>Code</u> C		<u>Name</u> Charge		
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Mandatory
		<u>Code</u>		<u>Name</u>		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		EU Electric Utilities				
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge Notes: <i>Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15</i> <i>ADJ002 Adjustment</i> <i>BAS001 Basic Service Charge</i> <i>DSC009 Energy Assistance Discount</i> <i>HOC001 Service Establishment Fee</i> <i>RCS001 Reconnect Fee</i> <i>VCR001 Charitable Contribution</i> <i>OLD001 Security Lighting Charge/Credit</i> <i>MSC001 Miscellaneous Charge</i> <i>MSC007 Charge for Damaged Equipment</i> <i>SUR000 RUCO Regulatory Assessment</i> <i>MSC024 System Benefit Charge</i> <i>SUR000 ACC Regulatory Assessment</i> <i>FFR000 Xray Charge</i> <i>MSC000 Flat Rate Charge</i> <i>CRE011 Service Quality Promises</i> <i>RCS001 Cancellation of the Reconnect Fee</i> <i>HOC000 After Hour Establishment Fee</i> <i>HOC000 Direct Access Fee</i> <i>HOC000 Cancellation of Direct Access Fee</i> <i>TRS001 Charges Transferred</i> <i>FAC000 Line Extension Charge</i>	C	AN	1/10	Mandatory
SAC05	610	Amount Description: Monetary amount Notes: <i>Dollar amounts may be positive or negative.</i>	O	N2	1/15	Mandatory
SAC13	230	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>Used for billing reason codes. Valid codes are:</i> <i>CONS01 Estimated Read</i> <i>CONS02 Multiplier Error</i> <i>CONS03 Back Dated Turn On/off</i> <i>MET01 Meter Tampering</i> <i>MET02 Switched Meters</i> <i>MET03 Damaged Meter</i> <i>NM01 Non-metered Account</i>	O	AN	1/30	Conditional

OK Backout and Rebill the Same

OTH01 Other

RAT01 Rate

TAX01 Tax

SAC15	352	Description	C	AN	1/80	Conditional
		Description: A free-form description to clarify the related data elements and their content				
		Notes: <i>Description is required when SAC04 code is one of the following, or the suffix of the SAC04 code is 000:</i>				

TXI**Tax Information (Account/item level taxes)**

Pos: 237	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:*Required if taxes exist and are billed at Account/item level(Account)**TXI~ZZ~4.55~~CD~ABC~~A~~~5**TXI~LS~8.10***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
TXI01	963	Tax Type Code Description: Code specifying the type of tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>AT</td><td>Assessment for Regulatory Assessments</td></tr><tr><td>CP</td><td>County/Parish Sales Tax</td></tr><tr><td>CS</td><td>City Sales Tax</td></tr><tr><td>FR</td><td>FranchiseTax</td></tr><tr><td>LS</td><td>State and Local Sales Tax</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	AT	Assessment for Regulatory Assessments	CP	County/Parish Sales Tax	CS	City Sales Tax	FR	FranchiseTax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined	M	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>																					
AT	Assessment for Regulatory Assessments																					
CP	County/Parish Sales Tax																					
CS	City Sales Tax																					
FR	FranchiseTax																					
LS	State and Local Sales Tax																					
ST	State Sales Tax																					
ZZ	Mutually Defined																					
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	Mandatory																
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code Notes: <i>Required if TXI01 = ZZ</i> <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined	C	ID	2/2	Conditional												
<u>Code</u>	<u>Name</u>																					
CD	Customer defined																					
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction Notes: <i>Required if TXI01 = ZZ</i>	C	AN	1/10	Conditional																
TXI07	662	Relationship Code Description: Code indicating the relationship between entities	O	ID	1/1	Optional																

11/16/00							Invoice - 810
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>	<u>Name</u>				
		A	Add				
Notes: <i>The amount in TXI02 is included when summing the invoice total</i>							

TDS

Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

To specify the total invoice discounts and amounts

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Notes:

Required

TDS~53275

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount	M	N2	1/15	Mandatory

Description: Monetary amount

Notes: *Total dollar amount of non-billing party's invoice*

CTT Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

To transmit a hash total for a specific element in the transaction set

Syntax:

1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Notes:

Recommended

CTT~3

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Mandatory
		Description: Total number of line items in the transaction set				
		Notes: <i>Number of IT1 segments in detail section</i>				

SE**Transaction Set Trailer**

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Comments:

- SE is the last segment of each transaction set.

Notes:*Required**SE~27~00052***Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Mandatory
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Mandatory